

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647924

Luminaire Tested: **GALN-SA5A-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14692.2 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

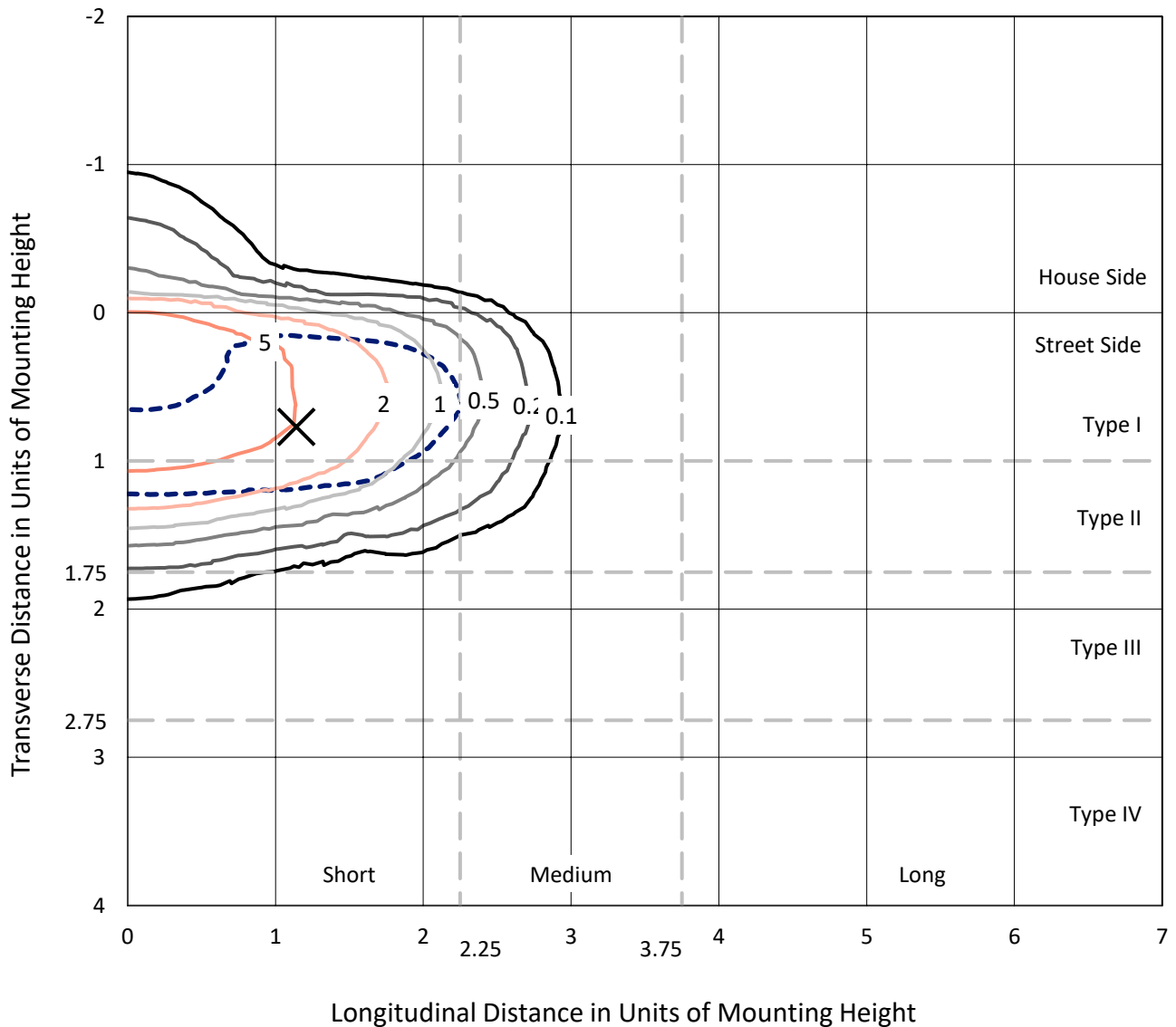
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

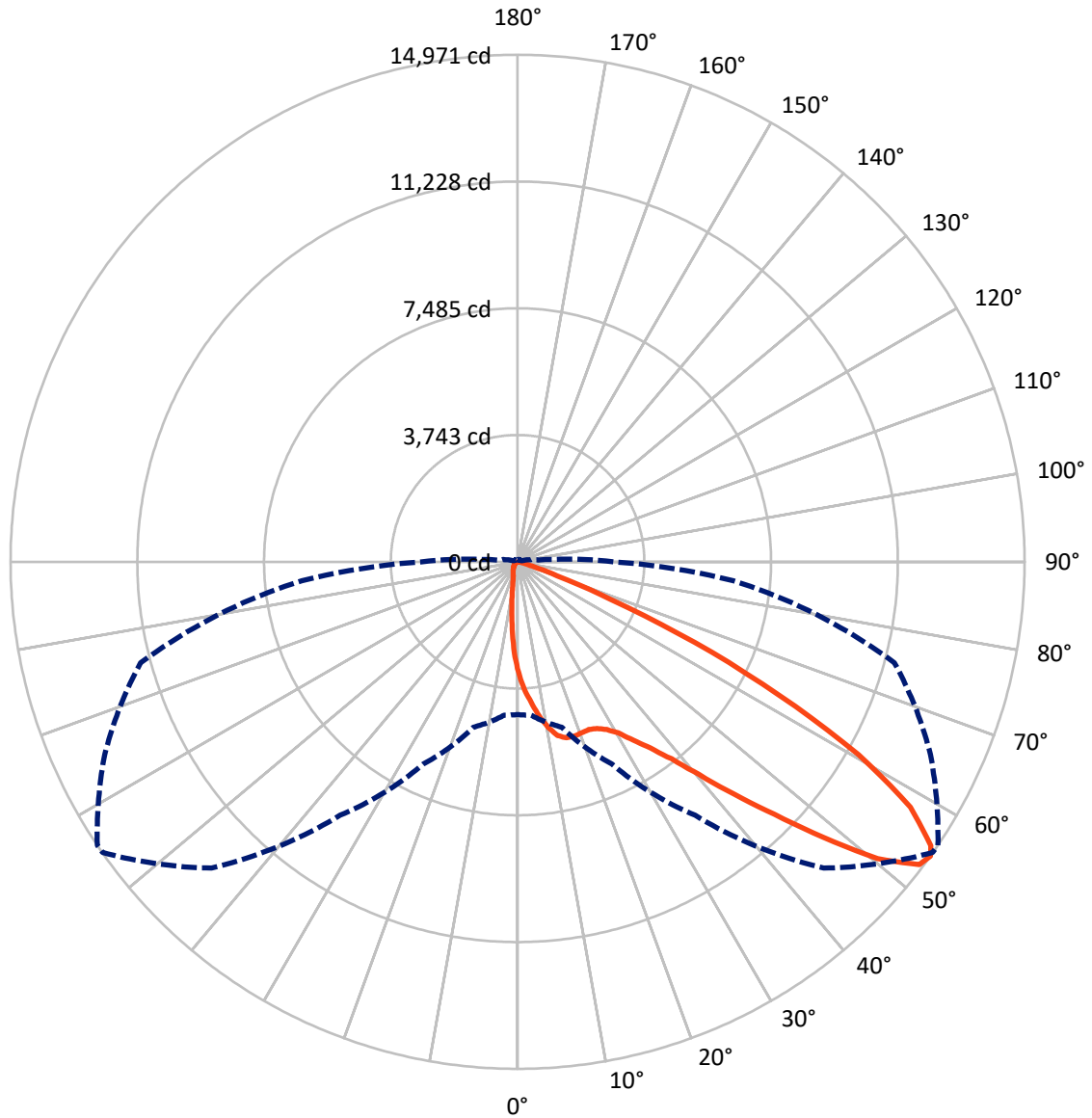
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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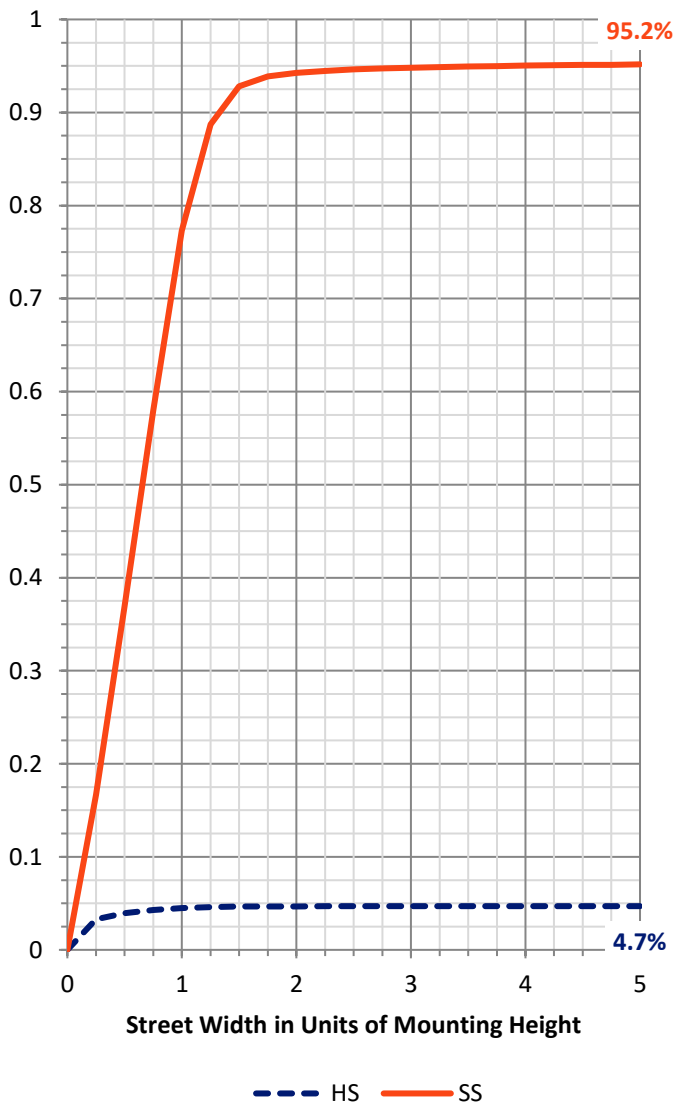
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	694.8	0.0	694.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	13997.5	0.0	13997.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	14692.2	0.0	14692.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.4	2.0
10°-20°	779.8	5.3
20°-30°	1350.5	9.2
30°-40°	2331.1	15.9
40°-50°	3967.7	27.0
50°-60°	3926.5	26.7
60°-70°	1792.1	12.2
70°-80°	230.2	1.6
80°-90°	25.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14692.2	100.0
0°-180°	14692.2	100.0

Coefficient of Utilization

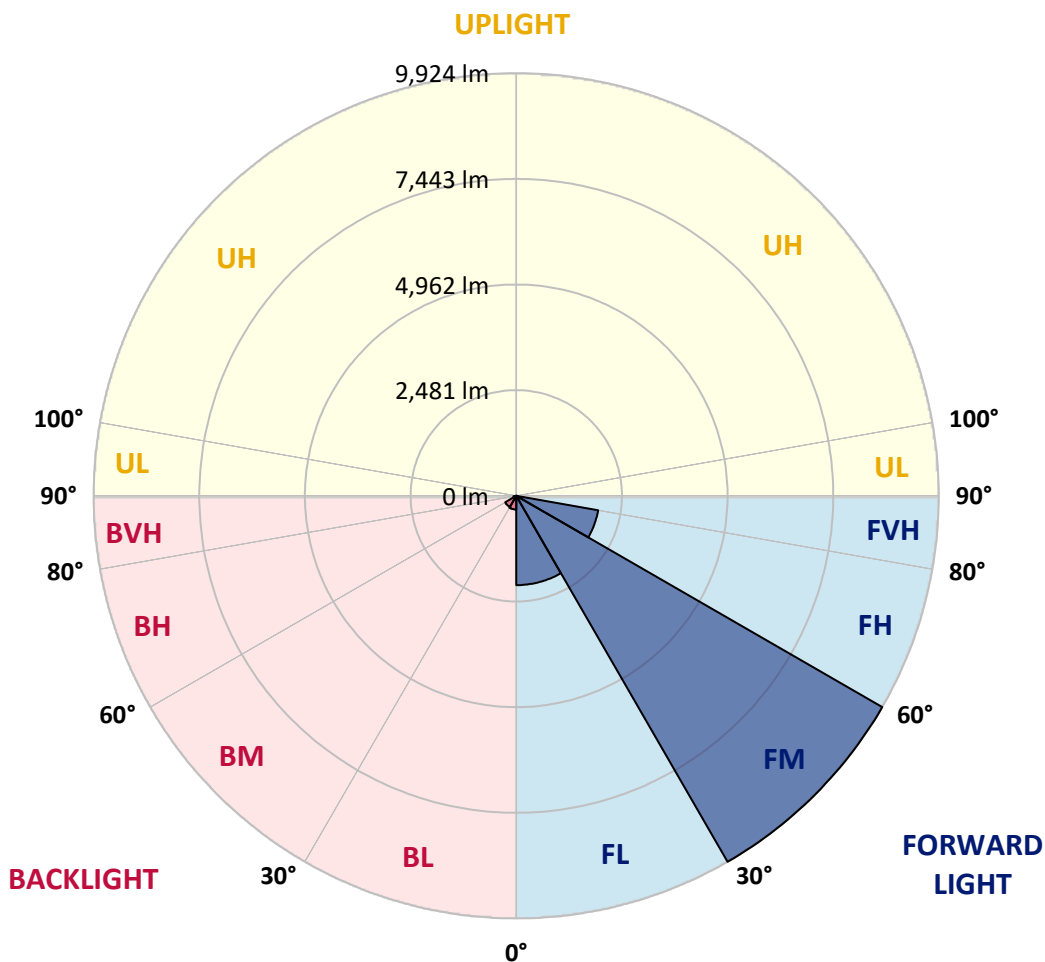


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2097.4	14.3			
FM (30°-60°)	9924.2	67.5			
FH (60°-80°)	1952.7	13.3			G2/5000
FVH (80°-90°)	23.2	0.2			G1/100
BL (0°-30°)	321.3	2.2	B1/500		
BM (30°-60°)	301.1	2.0	B1/1000		
BH (60°-80°)	69.6	0.5	B0/110		G0/110
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2
2.5°	4148.4	4119.6	4080.0	4049.3	3976.9	3872.8	3762.8	3762.8	3656.7	3509.0	3358.4
5°	4784.8	4766.0	4727.3	4648.0	4566.7	4421.0	4199.9	4161.3	3971.9	3704.3	3422.8
7.5°	5043.5	5052.4	5054.4	5033.6	4994.9	4851.2	4632.1	4605.4	4303.1	3944.2	3507.1
10°	4795.6	4839.3	4881.9	4968.1	5090.0	5124.7	5000.9	4973.1	4675.8	4187.0	3598.3
12.5°	4426.9	4450.7	4474.5	4610.3	4855.1	5135.7	5265.5	5264.5	5012.8	4428.9	3714.2
15°	4255.4	4276.3	4278.2	4338.7	4550.8	4959.2	5378.5	5393.4	5341.9	4727.3	3839.1
17.5°	4291.2	4308.0	4294.1	4308.9	4420.0	4764.9	5365.7	5415.2	5608.5	5013.7	3952.1
20°	4524.1	4556.7	4503.3	4461.6	4495.3	4713.4	5322.1	5391.4	5796.9	5293.3	4055.2
22.5°	4942.4	4960.2	4892.8	4778.8	4719.4	4821.5	5310.1	5378.5	5957.4	5522.3	4114.7
25°	5407.2	5401.3	5327.0	5199.1	5074.2	5039.5	5388.4	5449.9	6090.3	5728.4	4132.5
27.5°	5872.2	5890.0	5765.2	5606.5	5456.8	5366.6	5563.9	5609.5	6239.9	5963.3	4154.4
30°	6412.4	6383.6	6260.7	6079.4	5907.8	5782.0	5846.4	5859.3	6446.1	6274.6	4211.8
32.5°	7115.2	7035.9	6898.1	6580.9	6458.0	6244.9	6260.7	6276.6	6696.9	6582.9	4281.2
35°	8068.8	8064.8	7795.2	7368.0	7068.6	6804.0	6734.6	6747.4	7076.5	7040.8	4434.8
37.5°	9216.6	9232.5	8925.2	8495.0	7943.8	7523.6	7380.9	7382.8	7653.4	7673.2	4668.8
40°	10151.4	10193.0	10009.6	9719.2	9175.0	8517.8	8278.0	8256.1	8464.3	8439.5	5002.8
42.5°	10553.8	10592.5	10660.9	10762.0	10462.7	9920.5	9354.4	9384.2	9447.6	9274.2	5377.6
45°	10356.6	10418.0	10686.7	11311.1	11592.7	11410.3	10735.2	10631.2	10362.5	10181.1	5754.2
47.5°	9534.8	9684.5	10133.6	11173.4	12158.7	12775.3	12293.5	12155.7	11278.4	10843.3	5994.1
50°	8183.8	8192.7	8818.1	10147.4	11865.3	13636.6	13884.5	13781.3	12131.9	11215.0	6115.0
52.5°	5932.6	6127.9	6700.8	8240.3	10594.5	13505.8	14898.5	14855.9	13012.1	11405.3	6289.4
54°	4510.2	4547.8	5057.4	6584.9	9134.4	12787.1	14960.9	14970.9	13449.3	11520.3	6392.6
55°	3697.3	3607.1	4142.5	5609.5	8138.2	12151.8	14756.7	14804.3	13645.6	11579.8	6468.9
57.5°	1752.5	1753.5	2162.9	2958.9	5097.0	9435.7	13508.8	13677.3	13667.3	11681.9	6703.8
60°	887.1	893.1	983.3	1365.9	2517.8	6272.6	11169.4	11570.9	12615.6	11696.8	6781.2
62.5°	620.5	613.6	598.7	657.2	1059.6	3187.8	8315.6	8664.5	10718.4	11130.7	6535.3
65°	531.3	516.5	474.8	465.9	535.3	1269.8	5179.3	5748.2	8183.8	9637.9	5835.5
67.5°	454.0	448.0	410.4	387.6	378.7	553.1	2672.4	2971.8	5593.6	6927.8	4420.0
70°	385.6	382.7	359.8	331.1	306.3	331.1	991.3	1228.1	3117.5	3730.1	2085.6
72.5°	313.2	316.2	320.2	283.5	257.8	234.9	423.3	492.7	1304.5	1333.2	729.5
75°	274.6	271.6	271.6	246.8	215.1	174.5	232.9	250.8	399.5	370.8	169.5
77.5°	193.3	186.4	218.1	203.2	179.4	123.9	132.8	140.8	165.5	141.7	79.3
80°	133.8	133.8	139.8	182.4	161.6	90.2	81.3	87.2	98.1	84.3	45.6
82.5°	75.3	77.3	91.2	97.2	94.2	60.4	53.6	54.5	65.5	57.5	28.7
85°	8.9	14.9	52.5	51.5	38.7	26.8	29.8	30.7	40.6	35.7	16.8
87.5°	1.0	2.0	10.9	13.9	9.9	10.9	10.9	10.9	13.9	15.9	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2	3264.2
2.5°	3277.1	3201.8	3022.3	2814.2	2681.3	2465.3	2282.8	2151.0	2118.3	2054.8	2073.7
5°	3273.1	3116.5	2750.8	2364.1	1951.8	1644.5	1415.5	1235.1	1155.8	1103.2	1066.6
7.5°	3275.1	3030.3	2443.4	1827.8	1335.2	1033.9	821.8	711.7	638.4	607.6	611.6
10°	3281.0	2933.1	2086.6	1354.0	901.1	668.1	538.2	485.7	461.0	457.0	455.9
12.5°	3294.9	2827.0	1745.6	1005.1	630.5	485.7	436.1	418.3	410.4	410.4	407.4
15°	3309.8	2710.0	1462.1	747.4	485.7	417.3	394.6	385.6	380.6	380.6	379.7
17.5°	3309.8	2575.3	1197.4	579.9	418.3	383.6	365.7	353.8	349.9	349.9	348.9
20°	3289.0	2418.7	962.5	466.9	379.7	351.9	334.0	321.2	316.2	314.2	313.2
22.5°	3216.6	2209.5	766.2	401.4	348.0	324.2	301.4	286.5	282.5	280.5	281.5
25°	3087.8	1973.6	606.7	352.9	319.2	290.4	270.6	259.7	255.7	255.7	256.7
27.5°	2954.9	1726.7	480.8	316.2	284.5	258.7	242.9	235.9	234.9	237.9	238.9
30°	2832.0	1478.9	389.5	286.5	253.8	231.9	221.0	219.1	219.1	220.0	221.0
32.5°	2695.2	1261.9	326.1	260.7	228.9	210.2	204.2	204.2	206.2	206.2	208.2
35°	2609.0	1075.5	286.5	235.9	210.2	194.3	190.3	191.3	194.3	198.3	200.2
37.5°	2562.4	926.8	260.7	216.1	192.3	181.4	177.4	179.4	186.4	193.3	194.3
40°	2566.4	814.8	239.9	199.3	178.4	166.5	163.6	169.5	176.4	183.4	184.4
42.5°	2610.0	731.6	220.0	179.4	166.5	149.7	148.7	154.6	157.6	164.6	165.5
45°	2661.5	671.1	199.3	158.6	144.7	129.8	130.8	135.8	139.8	150.6	152.7
47.5°	2677.4	629.5	175.5	134.8	118.9	114.0	115.0	117.9	125.9	135.8	136.8
50°	2695.2	603.7	152.7	114.0	101.1	100.1	101.1	103.1	108.1	112.0	111.0
52.5°	2771.5	602.7	133.8	99.1	86.2	88.2	89.2	88.2	84.3	78.3	76.3
54°	2842.9	605.7	124.9	92.2	79.3	82.3	81.3	76.3	66.4	60.4	57.5
55°	2900.4	608.6	120.0	87.2	75.3	76.3	77.3	67.4	54.5	48.5	46.6
57.5°	3013.4	601.7	108.1	76.3	66.4	62.5	61.5	44.6	29.8	25.8	23.8
60°	2956.9	543.2	98.1	65.5	56.5	50.6	41.7	24.7	14.9	10.9	10.9
62.5°	2734.9	461.0	87.2	53.6	46.6	38.7	21.8	13.9	7.0	4.0	3.0
65°	2446.4	387.6	78.3	42.6	36.6	24.7	11.9	8.9	3.0	0.0	0.0
67.5°	1818.9	287.4	66.4	33.7	27.7	15.9	7.9	4.9	1.0	0.0	0.0
70°	842.6	175.5	56.5	25.8	19.8	11.9	6.0	3.0	0.0	0.0	0.0
72.5°	241.9	110.0	46.6	18.9	13.9	9.9	4.9	2.0	1.0	0.0	0.0
75°	84.3	88.2	34.7	13.9	10.9	7.0	4.0	2.0	1.0	0.0	0.0
77.5°	50.6	71.3	21.8	11.9	8.9	6.0	4.0	2.0	1.0	1.0	0.0
80°	28.7	47.6	13.9	9.9	7.9	4.9	3.0	2.0	1.0	1.0	0.0
82.5°	15.9	22.8	10.9	8.9	7.0	4.9	3.0	2.0	1.0	1.0	1.0
85°	12.9	11.9	8.9	7.9	6.0	4.0	3.0	1.0	0.0	0.0	0.0
87.5°	9.9	7.9	7.9	7.9	6.0	4.0	3.0	1.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)